

BlowLTD's BDT Payment API

BlowLTD's Backend Developer Test API

This API is the answer to BlowLTD's Backend Developer Test. It represents part of a payments system API.

Requirements

- API should be RESTFUL
- API should be able to
 - Fetch a payment resource
 - Create, update and delete a payment resource
 - List a collection of payment resources
 - Persist resource state (e.g. to a database)

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Access

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Default

GET /payments

[Up](#)

Returns a list of payments. (`paymentsGet`)

Returns a list of the payments in the database.

Query parameters

limit (optional)

Query Parameter – The maximum number of payments to return in the response

offset (optional)

Query Parameter – The number of payments to skip before returning the response

Return type

array[[Payment](#)]

Example data

Content-Type: application/json

```
[ {
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}, {
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
} ]
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

A JSON array of payments.

500

A server error occurred while processing request.

DELETE /payments/{id}

Up

Delete a payment. (**paymentsIdDelete**)

Deletes a payment matching the provided ID, from the database, if it exists.

Path parameters

id (required)

Path Parameter — The payment ID

Responses

204

Payment was deleted.

404

No payment matching the provided ID exists in the database.

500

A server error occurred while processing request.

GET /payments/{id}

Up

Returns a payment. (**paymentsIdGet**)

Returns a single payment from the database, if it exists and matches the provided ID.

Path parameters

id (required)

Path Parameter — The payment ID

Return type

[Payment](#)

Example data

Content-Type: application/json

```
{
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

A JSON detail of the payment. [Payment](#)

400

Payment retrieval failed. ID is not valid. [Error](#)

404

No payment matching the provided ID exists in the database.

500

A server error occurred while processing request.

PATCH /payments/{id}

Up

Update a payment. (**paymentsIdPatch**)

Updates a payment matching the provided ID, in the database, if it exists.

Path parameters

id (required)

Path Parameter — The payment ID

Return type

[Payment](#)

Example data

Content-Type: application/json

```
{
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

A JSON detail of the payment. [Payment](#)

400

Payment update failed. Client input is not valid. [Error](#)

404

No payment matching the provided ID exists in the database.

500

A server error occurred while processing request.

POST /payments

Up

Creates a payment. (**paymentsPost**)

Creates a payment with the parameters sent in the request's body. Returns the payment details if successful.

Consumes

This API call consumes the following media types via the Content-Type request header:

- application/json

Request body

body [Payment](#) (required)

Body Parameter – The JSON detail of the payment

Return type

[Payment](#)

Example data

Content-Type: application/json

```
{
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

201

A JSON detail of the payment. The creation was successful. [Payment](#)

400

Payment creation failed. Client input is not valid. [Error](#)

500

A server error occurred while processing request.

Models

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Currency

[Up](#)

Currency enumerator. Contains allowed values for currency type.

Error

[Up](#)

Error object. Used in error responses that require extra details.

message (optional)

[String](#)

type (optional)

[String](#)

code (optional)

[String](#)

Id

[Up](#)

Id string. Contains the pattern for allowed IDs (UUID v4).

Payment

[Up](#)

Payment object. Main API resource.

id (optional)

[Id](#)

version (optional)

[BigDecimal](#)

organisation_id (optional)

[Id](#)

attributes (optional)

[PaymentAttributes](#)

PaymentAttributes

[Up](#)

Payment Attributes object. Contains most of the information related to a payment.

amount (optional)

[BigDecimal](#) Amount paid

currency (optional)

[Currency](#)

beneficiary_party_id (optional)

[Id](#)

debtor_party_id (optional)

[Id](#)

sponsor_party_id (optional)
[Id](#)

payment_scheme_type (optional)
[PaymentSchemeType](#)

payment_type (optional)
[PaymentType](#)

scheme_payment_type (optional)
[SchemePaymentType](#)

scheme_payment_sub_type (optional)
[SchemePaymentSubType](#)

reference (optional)
[String](#)

payment_purpose (optional)
[String](#)

end_to_end_reference (optional)
[String](#)

processing_timestamp (optional)
[BigDecimal](#) Timestamp for the payment's processing operation. Replaces the processing_date string.

numeric_reference (optional)
[String](#)

payment_id (optional)
[String](#)

PaymentSchemeType [Up](#)

Payment Scheme Type enumerator.

PaymentType [Up](#)

Payment Type enumerator.

SchemePaymentSubType [Up](#)

Scheme Payment Sub-Type enumerator.

SchemePaymentType [Up](#)

Scheme Payment Type enumerator.